

# GERAB

# BULLETIN

Vol: 14



- **Editorial:** Gerab National Enterprises is headquartered in the UAE. Gerab serves the Oil, Gas, Petrochemical, Energy, Water, Process, and Other Civil Construction industries. Gerab's strong relationship with manufacturers world-wide enables it to offer quality piping solutions timely, and competitively. Furthermore, it's in-house storage facilities, logistics capabilities, value-added services, and motivated teams offer innovative solutions for managing project material supplies to our customers. Gerab maintains a significant inventory of well-preserved piping components and applies the ISO 9001:2008 quality assurance standards for managing the inventory and material documentation. Gerab Bulletin is our contribution to update our stakeholders on project announcements and key component pricing trends. We hope you will find the contents useful and we would definitely like get your feedback.

## EXECUTIVE SUMMARY

### The Commodity summary

- Natural gas prices are in downtrend and trading lower by 55% 6MTD and trading lower by 24% than a year ago prices.
- Coal prices are in downtrend and is trading lower by 12% 6MTD
- Iron ore prices are in uptrend but is still trading lower by 5% than a year ago prices.
- Crude Oil Brent prices gained 7% WTD but Crude Oil WTI prices went down by 9% WTD.

### The Currency summary

- US Dollar to Euro is stronger by more than 3% YTD but Euro has gained over USD by 8% 3MTD
- The US Dollar to CNY is stronger by more than 7% YTD. CNY gained by 6% 3MTD

### The Rig count summary

- The Rig counts in Latin America have gone down by 7% MTD but in North America ,it has gone up by 17% MTD

### Project summary

- ADNOC allocates \$15 billion to low-carbon projects
- UAE launches 11 green projects worth \$43.3 billion
- Kuwait's \$6.3bn Clean Energy Projects Under Implementation
- Oman awards \$500 million LNG contract
- Technip Energies secures \$265 million contract for Chevron-QatarEnergy JV project
- Maire Tecnimont awarded \$1.3 billion EPC Petrochemical Contract in Qatar
- \$6bn QatarEnergy and Chevron Phillips Chemical to build one of the world's largest ethylene plant
- QatarEnergy progresses construction work on \$10 billion LNG export facility
- Contracting giants to battle for Saudi Aramco's \$6 billion Jafurah development
- Aramco awards \$693 million contract for desalination plant

## COMMODITY UPDATES

COMMODITY	UOM	Latest Price	WTD %	MTD %	3MTD %	6MTD %	YTD %
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Chromium	USD/MT	10,665.62	0.14	5.35	13.13	-0.26	3.12
Coal	USD/MT	396.39	-2.61	-10.34	-7.93	-11.96	71.31
Cobalt	USD/MT	38,360.43	-1.47	-13.21	-31.87	-40.18	-48.68
Copper	USD/MT	9,278.00	1.43	10.14	22.76	23.62	-4.79
Crude Oil	USD/BBL	83.27	-0.85	6.34	-7.53	-19.09	-0.84
Crude Oil Brent	USD/BBL	86.34	7.32	6.94	-7.35	-18.11	1.65
Crude Oil WTI	USD/BBL	80.20	-9.11	5.71	-7.71	-20.12	-2.70
Iron Ore	USD/MT	121.94	0.76	10.99	27.90	12.73	-4.97
Molybdenum	USD/MT	69,788.25	2.89	31.46	69.12	91.81	67.08
Natural Gas	USD/MCF	3.28	-12.67	-46.79	-48.27	-54.88	-23.97
Nickel	USD/MT	28,765.00	2.77	-1.35	30.72	33.54	30.77
Steel HRC (FOB China)	USD/MT	624.50	-	8.70	12.46	0.96	-16.71
Steel HRC (N. America)	USD/MT	810.75	1.15	13.43	-3.89	-19.90	-47.93
Steel Rebar	USD/MT	671.17	0.05	10.30	17.83	2.35	-16.98
Steel Scrap	USD/MT	414.00	-0.96	7.99	16.07	10.40	-11.68

Source: Investing.com / Trading Economics / London Metal Exchange / MarketIndex.com.au / OilPrice.com

#### CURRENCY EXCHANGE RATE

Code	Description	Country	Units	Latest Exchange Rates	WTD%	MTD%	3MTD%	6MTD%	YTD%
EURUSD	1 EUR to USD	Euro Area	USD	1.0913	0.80	2.62	8.17	7.73	-2.92
USDCNY	1 USD to CNY	China	CNY	6.7697	0.01	2.94	5.79	-0.05	-6.81

Source- Trading Economics

#### CRUDE OIL STOCK

Region	Unit	Latest Count	WTD %	MTD %	3MTD %	6MTD %	YTD %
US Stocks of Crude Oil & Petroleum Products	Thousand Barrels	16,05,596.00	0.25	1.77	-1.13	-4.36	-9.18

Source: US Energy Information Authority

#### SELECTIVE COMMODITY TRADERS AND PIPE MANUFACTURERS STOCK PRICES.

##### STOCK PRICES

Name	Latest Value	Units	WTD%	MTD%	3MTD%	6MTD%	YTD%
ArcelorMittal SA	31.45	USD	3.62	17.97	35.09	37.34	4.35
Glencore PLC	556.70	GBP	-1.31	-0.23	7.91	26.87	39.49
NYSE American Steel Index	1993.85	Index	3.39	13.74	27.08	35.40	28.82
Rio Tinto PLC	6315.31	GBP	2.67	8.73	30.40	30.93	16.22
Tenaris SA	35.15	USD	-1.07	-0.99	13.24	37.47	45.49
Tubacex SA	2.28	EUR	2.24	15.15	5.07	14.00	45.22

Source- Trading Economics / Wall Street Journal / CNBC

## INTERNATIONAL RIG COUNTS

ACTIVE RIG COUNTS BY REGION						
Region	Latest Count	WTD %	MTD %	3MTD %	6MTD %	YTD %
United Arab Emirates	52	*	1.96	4.00	8.33	23.81
GCC	218	*	-2.24	4.81	10.66	15.34
Middle East	321	*	-1.83	4.56	6.64	13.83
Africa	84	*	1.20	13.51	16.67	3.70
Asia-Pacific	183	*	-2.66	-4.69	0.00	1.67
Europe	107	*	12.63	7.00	35.44	1.90
Latin America	173	*	-6.49	-3.35	9.49	10.19
North America	1,010	1.00	17.31	3.27	4.55	22.13
<b>Total</b>	<b>1,878</b>	*	<b>7.99</b>	<b>2.62</b>	<b>6.77</b>	<b>15.07</b>

Source- Baker Hughes

(\*) No weekly data available for those particular regions

## PROJECTS

UAE

- ADNOC L&S signs deal for Indian LNG terminal**  
ADNOC Logistics & Services (L&S) and Atlantic Gulf & Pacific International Holdings (AG&P) have signed their third charter deal to utilise Ghasha, ADNOC's LNG carrier, as a floating storage unit offshore India. Under the terms of the agreement, the carrier will be used at AG&P's LNG Import Terminal in India, which will be commissioned in the second half of 2024. The agreement, valid for 11 years with the option of a four-year extension, strengthens the existing relationship between the two companies, which have previously entered two similar agreements for FSUs in India and the Philippines. The integrated terminal offshore India will have an initial capacity of 5 million tonnes per annum. Captain Abdulkareem Al Masabi, CEO of ADNOC L&S, said: "ADNOC L&S is in the midst of a major renewal project of its LNG fleet and, as we do so, we are repurposing our older vessels to extend their life, generating incremental value and new revenue streams. **23<sup>rd</sup> December 2022**
- Gezhouba group and SIDEM named as EPC for Umm Al Quwain IWP**  
The Developer of Umm Al Quwain IWP, ACWA Power selected the EPC contractor for 150 million imperial gallons a day (682,000 m<sup>3</sup>/day) of desalinated water plant. The EPC contract has been awarded to the consortium of China Gezhouba Group Company Ltd. (CGGC) and French company SIDEM. The project is located in Umm Al Quwain, UAE, about 60 kilometers north of Dubai. Chen Xiaohua, Party Secretary and Chairman of CGGC, and Mohammed Abunayyan, Chairman of the Board of ACWA Power, attended the signing ceremony of the project. Once commissioned, Umm Al Quwain IWP is one of the world's top 5 seawater desalination projects. Also, one of the largest seawater desalination projects undertaken by Chinese enterprises in the world, represents an important achievement of CGGC in practising the idea of green development, strengthening international multilateral cooperation and promoting the implementation of "UAE Water Security Strategy 2036" and high-quality development of the "Belt and Road" Initiative. As per the contract, the project will be commissioned in 33 months. **21<sup>st</sup> December 2022**
- ADNOC allocates \$15 billion to low-carbon projects**  
ADNOC announced today an investment of \$15 billion in a range of projects by 2030 that will help the state-owned energy company accelerate its low-carbon growth strategy. These projects will include investments in clean power, carbon capture and storage (CCS), further electrification of its operations, energy efficiency, and new measures to build on ADNOC's long-standing policy of zero routine gas flaring. Combined with ADNOC's planned expansion of its carbon capture capacity to 5 million tons per annum (mtpa) by 2030, the UAE will be firmly established as a worldwide hub for carbon capture expertise and innovation. Building on the multi-billion capital investment in decarbonization projects,

ADNOC is working closely with its international partners and stakeholders across the energy value chain to collaborate on technology, best practices and policy to support and drive global decarbonization efforts. **5<sup>th</sup> January 2023**

- **Borouge secures two contracts worth \$15m from UAE manufacturers ationalnews.com)**

The Abu Dhabi-listed company will supply Ducab and Union Pipes Industry with polyolefins required in the construction of the Borouge 4 project. Borouge, the joint venture between Adnoc and Austrian chemicals producer Borealis, has secured two contracts worth Dh55 million (\$15 million) to supply polyolefins to UAE cable maker Ducab and Union Pipes Industry, its partner-customers. The companies will use the polyolefins to produce energy and infrastructure applications needed to construct the Borouge 4 project in Ruwais, Borouge said on Tuesday. Ducab will produce low and medium-voltage cables to power Borouge 4 using Borouge's energy solutions while UPI will use Borouge's "Made in UAE" solutions to produce pressure pipes for the cooling and public sanitation system of Borouge 4. The UAE, the Arab world's second-largest economy, plans to increase the industrial sector's contribution to the country's gross domestic product to Dh300 billion by 2031, from Dh133 billion in 2021, as part of the Operation 300bn strategy. **10<sup>th</sup> January 2023**

- **UAE, Korea sign major energy deals - Oil & Gas Middle East**

A joint declaration was signed between the two governments to enhance cooperation in energy through a strategic energy partnership. UAE President Sheikh Mohamed bin Zayed Al Nahyan and Yoon Suk Yeol, President of the Republic of Korea signed several agreements to develop cooperation across energy and other sectors between the two countries during Yeol's recent visit to the UAE. The agreements and MoUs signed between the two countries include one related to hydrogen energy's use in cities, its production, transmission and storage signed by the UAE Ministry of Energy and Infrastructure and the Korean Ministry of Land, Infrastructure and Transport, *WAM* reported. A joint declaration between the two governments was also inked to enhance cooperation in energy through a strategic energy partnership. Additionally, an agreement for cooperation in crude oil storage for "strategic and commercial storage" between ADNOC and the Korean National Oil Company, was signed by Dr Sultan bin Ahmed Al Jaber and Kim Dong-Sub. **16<sup>th</sup> January 2023**

- **Tecnimont, Technip Energies and Samsung Engineering JV awarded \$80m contract for Hail & Ghasha Project in Abu Dhabi**

Maire Tecnimont S.p.A. announces that Tecnimont S.p.A. received a Letter of Award from ADNOC for the early engineering and procurement works ("Pre-Construction Services Agreement-PCSA") related to the onshore facilities of the Hail & Ghasha Development Project, as member of a Joint Venture composed of Tecnimont, Technip Energies and Samsung Engineering. The overall contract value to the Joint Venture for the early engineering and procurement works on the onshore facilities is approximately USD 80 million. The PCSA scope of work also includes the preparation of an Open Book Estimate for the full project delivery scope, which will be considered as part of the Client's Final Investment Decision. **16<sup>th</sup> January 2023**

- **UAE launches 11 green projects worth \$43.3 billion**

Suhail bin Mohammed Al Mazrouei, Minister of Energy and Infrastructure, said the UAE has launched 11 environmentally-friendly energy projects worth \$43.3 billion in 2022. According to *WAM*, Al Mazrouei stated that the UAE's clean energy production in 2021 totalled 7,035.75 megawatts (MW), underscoring the country's pioneering efforts in the clean energy sector. **16<sup>th</sup> January 2023**

- **Thyssenkrupp and ADNOC Sign MOU to explore large-scale ammonia-cracking Plants**

ADNOC,UAE, announced today that it has signed a memorandum of understanding (MoU) with thyssenkrupp Uhde, a Germany-based subsidiary of thyssenkrupp Group that specializes in chemical engineering, to explore a long-term partnership to create new markets for hydrogen and promote global clean energy value chains. Signed at Abu Dhabi Sustainability Week (ADSW), the agreement will

focus on the development of projects for large-scale ammonia cracking, which is used to extract hydrogen from ammonia after transportation. Ammonia is a carrier of hydrogen and it is much easier to compress and transport. When shipped, after arriving at its destination, the ammonia needs to be decomposed, or “cracked,” into hydrogen, before use in the energy value chain. Under the agreement, the companies will work together to develop large-scale ammonia cracking plants with thyssenkrupp technology. The agreement will also lead to the exploration of opportunities in the clean energy value chain for the supply and shipment of low-carbon or green ammonia from the UAE to large-scale ammonia cracking facilities globally. ADNOC has already invested in low-carbon ammonia, where the carbon dioxide (CO<sub>2</sub>) emitted during production is captured and stored underground. **17<sup>th</sup> January 2023**

- **Montfort wins bid for Uniper's marine fuels oil refinery in UAE**

The deal could make Montfort one of the top two suppliers of ship fuel, also known as bunker fuel, in the world's third-largest bunkering hub located in the United Arab Emirates' city of Fujairah, rivalling energy trader Vitol. Montfort has emerged as the top bidder for Uniper Energy's oil refinery in the UAE that produces low-sulphur fuel oil for the shipping industry, multiple sources familiar with the matter said this week. The deal could make Montfort one of the top two suppliers of ship fuel, also known as bunker fuel, in the world's third-largest bunkering hub located in the United Arab Emirates' city of Fujairah, rivalling energy trader Vitol. Montfort's purchase is valued at around \$80 million, the sources said, and comes as embattled German utility Uniper is divesting assets to fulfil conditions set out by the European Commission in a 34.5 billion euro (\$37.36 billion) plan to recapitalise the company. **17<sup>th</sup> January 2023**

- **UAE and Japan agree to cooperate on various energy transition projects**

ADNOC and Masdar sign MoU with Japanese companies on ammonia and green hydrogen. Countries will collaborate in the field of industry and advanced technology. The UAE and Japan have agreed to cooperate and help accelerate the energy transition and the adoption of technology in the industry. Dr Sultan bin Ahmed Al Jaber, Minister of Industry and Advanced Technology and UAE Special Envoy to Japan, met with Yasutoshi Nishimura, Japan's Minister of Economy, Trade and Industry, on the sidelines of Abu Dhabi Sustainability Week (ADSW) 2023, to discuss the countries' strong bilateral relations and sign several memoranda of understanding. **18<sup>th</sup> January 2023**

- **TA'ZIZ, Fertigllobe, GS Energy and Mitsui signs agreement for low-carbon ammonia production facility**

Abu Dhabi Chemicals Derivatives Company RSC Ltd (TA'ZIZ) announced today the signing of a shareholder agreement with Fertigllobe, GS Energy Corporation (GS Energy) and Mitsui & Co., Ltd. (Mitsui), to develop an anticipated 1 million tons per annum low-carbon ammonia production facility at the TA'ZIZ Industrial Chemicals Zone. This is a further step in the project's journey towards a final investment decision (FID). The facility will reinforce Abu Dhabi's position as a leader in low-carbon fuels and capitalize on the growing demand for low-carbon ammonia as a carrier fuel for clean hydrogen. The agreement builds on ADNOC's deep experience in Carbon Capture, Utilization and Storage (CCUS), Fertigllobe's world-leading ammonia capabilities, and Mitsui and GS Energy's leading roles in industrial decarbonization. The shareholder agreement highlights the exceptional international investor interest in TA'ZIZ and follows ADNOC and Fertigllobe's recent sales of low-carbon ammonia demonstration cargos to customers in Japan, Korea and Germany. Low-carbon ammonia is made from hydrogen derived from natural gas feedstocks and nitrogen, with the carbon dioxide produced captured and stored. Ammonia can be used as a low-carbon fuel for applications, including transportation and power generation and in industries, such as steel, cement and fertilizers. The project will benefit from the UAE's position as a major producer and reserves holder of natural gas and leader in CCUS. **18<sup>th</sup> January 2023**

- **NPCC, Saipem and China Petroleum JV awarded \$60m Hail and Ghasha Gas Development Project**

National Petroleum Construction Company (NPCC), a National Marine Dredging Company Group subsidiary, announced in a statement that it has received a Letter of Award from the Abu Dhabi

National Oil Company (ADNOC) for the Pre-Construction Service Agreement (PCSA) related to the Offshore Facilities of the Hail and Ghasha Gas Development Project. The Letter of Award covers the early Project activities such as Initial Detailed Engineering and Procurement of critical Long Lead items. The PCSA scope of work also includes the preparation of an Open Book Estimate for the full project delivery scope, which will be considered as part of ADNOC's Final Investment Decision making process. NPCC will execute the project together with its Joint Venture Partners Saipem and China Petroleum Engineering and Construction Corporation (CPECC). The total value of the project related to the Letter of Award is about AED 220 million (60 million USD). **19<sup>th</sup> January 2023**

- **TA'ZIZ, Proman sign shareholders' agreement to develop UAE's first Methanol facility**

Abu Dhabi Chemicals Derivatives Company RSC Ltd (TA'ZIZ) and PROMAN AG (Proman), one of the world's leading producers of methanol, have signed a shareholders' agreement to develop the UAE's first world-scale methanol production facility at the TA'ZIZ Industrial Chemicals Zone in Al Ruways Industrial City, Abu Dhabi. Methanol has a variety of uses including in fuels, solvents, pharmaceuticals and construction materials and has growing potential as a lower-emission fuel, particularly in the maritime sector. Khaleefa Yousef Al Mheiri, TA'ZIZ Acting Chief Executive Officer, said, The total investment in the first phase of TA'ZIZ will be in excess of US\$5 billion (AED18 billion), with most of the chemicals produced in the UAE for the first time. All agreements are subject to regulatory approvals. Launched at the end of 2020, by ADNOC and ADQ, TA'ZIZ is driving and enabling expansion of Al Ruways Industrial City, as well as Abu Dhabi's wider chemicals, manufacturing and industrial sectors. **19<sup>th</sup> January 2023**

- **UAE to launch the first food-grade plastic recycling plant**

The Ministry of Industry and Advanced Technology (MoIAT) oversaw the signing of a Memorandum of Understanding (MoU) at Abu Dhabi Sustainability Week (ADSW), which will lay the groundwork for a new plastic recycling facility in the UAE. Under the plans, a 12,000 tonnes per annum polyethylene terephthalate (PET) recycling plant has been earmarked for Abu Dhabi. In line with the UAE's efforts to reduce plastic pollution and boost trade through the export of recycled materials, the plant will recycle PET, a plastic material that is used in food packaging, such as plastic water bottles. The 40,000m<sup>2</sup> facility in Abu Dhabi could create 100 jobs and avoid the emission of 18,000 metric tonnes of CO<sub>2</sub> annually at full operating capacity. In the frame of the project under study, Repeet would operate the recycling plant, while BEEAH Group would supply a seven-year feedstock of plastics. This is projected to reduce avoid 50,000 metric tonnes of CO<sub>2</sub> emissions, to enhance the national in-country value by \$40.9 million annually, and create more than 1000 jobs. **21<sup>st</sup> January 2023**

- **ADNOC breaks ground on world's first fully sequestered CO2 injection project**

ADNOC has begun work on the world's first fully sequestered carbon dioxide (CO<sub>2</sub>) injection well in a carbonate saline aquifer. The project, which is expected to begin injecting CO<sub>2</sub> in Q2 2023, marks another important step in ADNOC's commitment to decarbonize its operations, reduce its carbon intensity by 25% by 2030 and deliver on its net zero by 2050 ambition. This innovative project will support ADNOC's carbon capture and storage program, which is part of the suite of new projects and initiatives the company is advancing following the guidance by ADNOC's Board of Directors to accelerate the delivery of its low-carbon growth strategy and the allocation of \$15 billion to decarbonize its operations. The project will contribute to the production of lower-carbon ammonia. This effective and cost-competitive hydrogen carrier can be scaled up quickly and has lower-carbon intensity than other fuels. The project will also be monitored and assessed, using advanced technology at ADNOC's Thamama Digital Centre of Excellence, to ensure the highest levels of environmental safety as the company expands its carbon capture activities to capture 5 million tonnes per annum by 2030. This agreement makes ADNOC the first major oil and gas company to decarbonize its power at scale through an agreement of this kind. Additionally, ADNOC recently reached financial close on a \$3.8 billion deal to build a MENA first-of-its-kind sub-sea transmission network, connecting ADNOC's offshore operations to TAQA's clean onshore power network which once complete, could reduce offshore carbon intensity by up to 50%. **19<sup>th</sup> January 2023**

KUWAIT

- **Kuwait's \$6.3bn Clean Energy Projects Under Implementation**  
Kuwait has clean energy projects worth \$6.3 billion under implementation, while it has only 0.5% of the installed clean energy capacity. There is optimism in future renewable and clean energy projects in the region, including blue and green hydrogen and ammonia schemes, as there are projects worth \$54.1 billion, or 1.8 percent of regional GDP, that have exceeded the study phase, of which \$31.5 billion are in the phase of bidding study. Additional projects worth \$282 billion, equivalent to 9.6% of the regional gross domestic product, are under study. The two countries that continue to lead the region in terms of their energy transition potential are Morocco and Jordan, both of which have committed to 50% green energy by 2030. Both countries already have renewable and clean energy totaling more than 33% of total energy demand, both of which have seen above-average spending on green new capacity over the past five years, with each country allocating more than 2% of GDP. **29<sup>th</sup> December 2022**
- **Technip Energies Awarded PMC Contract in Kuwait**  
Technip Energies announced in a statement that it has been awarded a large contract for Project Management Consultancy (PMC) by Kuwait Oil Company (KOC). The five-year framework agreement contract covers front-end engineering design (FEED), project management, and associated services for KOC's major projects. This contract represents a renewal of the first five-year framework agreement that was awarded to Technip Energies by KOC in 2014. Charles Cessot, Senior Vice-President T.EN X of Technip Energies, commented: "We are delighted by the continued confidence shown by KOC with this award to support them on their major developments. This award reinforces the strong and lasting relationship we have built with KOC and reaffirms our outstanding consultancy delivery as well as our long-standing presence in Kuwait. A "large" award for Technip Energies is a contract award representing between €250 million and €500 million of revenue. As the framework agreement is call-off in nature, the overall value of the contract will be progressively added to order intake as it is called off by the client. **5<sup>th</sup> January 2023**
- **Kuwait expanding 'gas' manufacturing capacity**  
The implementation of the project will help Kuwait export propane and butane gases to global markets. Director of the Comprehensive Planning Department at the Kuwait National Petroleum Company, Fahad Al-Ajmi, said the implementation of the fifth liquefied gas pipeline project is in line with the company's plan and future strategic objectives related to the expansion of gas manufacturing capacity, reports Al-Qabas daily. He explained that the implementation of the project will help Kuwait export propane and butane gases to global markets, to meet the growing demand for these products locally and globally. Al-Ajmi pointed out that the fifth liquefied gas line enhances the company's ability to process gas, as the total capacity of the five lines has reached 3.125 billion standard cubic feet of gas per day, and 332 thousand barrels of condensate and liquefied gas. He went on to say, the directions and objectives of the company include the need to increase the production capacity of the gas treatment and liquefaction units to keep pace with the strategic direction of the KNPC to increase the production of natural gas associated and not associated with crude oil. **16<sup>th</sup> January 2023**
- **Implementation of 5th liquefied gas project part of KNPC's future strategic objectives**  
The implementation of this project, he said, will help Kuwait export propane and butane gases to global markets, to meet the growing demand locally and globally, reports Al-Qabas daily, saying this constitutes a new addition that supports the country's development process. Al-Ajmi pointed out that the fifth liquefied gas line enhances the company's ability to process gas, as the total capacity of the five lines has reached 3.125 billion standard cubic feet of gas per day, and 332 thousand barrels of condensate and liquefied gas. Al-Ajmi said that the capacity of the fifth line is 805 million standard cubic feet of gas per day, and 106,000 barrels of condensate and liquefied gas. Line 5 has been designed so that it can be operated independently, or in parallel with existing LPG production units. **12<sup>th</sup> January 2023**

OMAN

- **Oman awards \$500 million LNG contract**  
Asyad Shipping, part of Oman’s state-owned Asyad Group, has signed an agreement with South Korean shipyard Hyundai Samho Heavy Industries for the construction of a pair of state-of-the-art LNG carriers. State-owned Asyad Group noted in a post that the agreement signing, covering the supply of two new fifth generation LNG carriers, represents “another landmark in the group’s expansion plans to bolster its energy logistics capabilities and meet growing global demand”. According to the Korean shipyard, the order for the two LNG carriers is worth the equivalent of \$505.5 million. It added that the vessels are slated for delivery by mid-2026. **26<sup>th</sup> December 2022**
- **Oman, Japan Ink MoU in Energy Field, Extend MoU in Oil and Gas Field**  
The Sultanate of Oman, represented by the Ministry of Energy and Minerals, and Japan, represented by its Ministry of Economy, Trade and Industry, today signed a Memorandum of Understanding (MoU) in the field of hydrogen, fuel ammonia and carbon recycling that includes Methanation. The two sides also signed the third extension of the MoU signed between the Ministry of Energy and Minerals and Japan Organization for Metals and Energy Security in the field of crude energy, natural gas and clean energy. The MoUs were signed by Eng. Salim Nasser Al Afi, Minister of Energy and Minerals and Yasutoshi Nishimura, Japanese Minister of Economy, Trade and Industry. The first MoU aims to accelerate the Oman-Japan energy and resources cooperation and acknowledge the continued role and contribution of the Sultanate of Oman to Japan’s energy security. **28<sup>th</sup> December 2022**
- **SABIC, OQ and KPI Signed Agreement for World Scale Petrochemical Complex in Duqm**  
OQ, SABIC and Kuwait Petroleum International (KPI) have signed a Project Development Agreement of a jointly owned petrochemical complex in the Special Economic Zone at Duqm (SEZAD), the Sultanate of Oman. The three companies aim to establish a petrochemical complex consisting of a steam cracker and derivative units and a natural gas liquid (NGL) extraction facility. They will conduct the necessary studies and collaborate using their wealth of technical and commercial experience to develop the project with unique attributes that make it globally competitive and profitable for all three partners. The agreement was signed by Talal Hamid Al Awfi – OQ Group CEO, Abdulrahman Saleh Al Fageeh CEO (A) of SABIC, and Shafi Taleb Al Ajmi – CEO of KPI. Commenting on this agreement, Talal Al Awfi, said, “OQ is proud of this historic agreement with our partners SABIC and KPI. The agreement is a significant milestone reached between the partners and comes at an important time in Oman with the near completion of the OQ8 refinery project in SEZAD being undertaken by OQ and KPI through the OQ8 joint venture. This agreement also comes in line with Oman Investment Authority (OIA) plans to attract foreign investments to support realize Oman’s vision 2040 in its endeavour to diversify Oman’s economy. **29<sup>th</sup> December 2022**
- **Oman LNG signed agreements with ITOCHU, JERA and Mitsui**  
Oman LNG signed three binding sheet agreements with Japanese firms for the production and delivery of LNG starting from 2025. The total amount of LNG to be delivered is 2.35 million metric tonnes per annum (MTPA). The new agreements will see Oman LNG supplying LNG based on contracts varying from 5 to 10 years. The amount of LNG to be delivered is as follows: 0.8 MTPA to ITOCHU Corporation, 0.8 MTPA to JERA Co., Inc. and 0.75 MTPA to Mitsui and Co. Ltd. Eng. Salim Nasser Al Afi, Minister of Energy and Minerals and Nishimura Yasutoshi, Japanese Minister of Economy, Trade and Industry were present during the signing ceremony. The agreements were signed by Hamad Al Nu’amani, CEO of Oman LNG, Tetsuya Yamada from ITOCHU Corporation, Hitoshi Nishizawa from JERA Co., Inc. and Motoyasu Nozaki from Mitsui and Co. **30<sup>th</sup> December 2022**
- **Shell Plans Blue Ammonia Production from Oman’s Mabrouk Gas Field**  
Shell plans to exploit the gas reserves of the Mabrouk field to produce blue ammonia for the local market, said a senior official at Shell Oman. Waleed Hadi, Shell’s Head of Operations has revealed that by next year, the company in partnership with the Ministry of Energy and Minerals, will arrive at an



agreement to exploit the gas reserves from concession Blocks 10 and 11. He added that the project may progress from the evaluation stage to detailed engineering studies in 2023 but a Final Investment Decision (FID) will be taken only if the project is found commercially feasible. ecently, Shell Oman awarded Petrofac three major Engineering and Procurement Services (EPS) contracts for Block 10 of Mabrouk field. **4<sup>th</sup> January 2023**

- **Oman signs LNG, Green Hydrogen agreements with Shell**

The Ministry of Energy and Minerals, Oman signed a Letter of Intent with Oman Shell company to explore opportunities for the production of Liquefied Synthetic Gas (LSG) in the Sultanate of Oman. LSG is produced when green hydrogen is combined with captured carbon dioxide to produce natural gas which is then liquefied. This low-carbon gas can be directly introduced to existing gas networks and infrastructure, including the liquefied natural gas stations of the Oman LNG Company, all the way to the end user. The agreement was signed by Eng. Salim Nasser Al Afi, Minister of Energy and Minerals, and Walid Hadi, Senior Vice President and Country Chair, Oman Shell. Commenting on the agreement, Eng. Salim Al Afi said, "This agreement is evidence of our confidence in the future of the Sultanate of Oman as a multiple energy source hub, as well as the rapid development of its interest in renewable energy and green hydrogen production. **11<sup>th</sup> January 2023**

- **\$463 million ammonia plant in Oman**

Ammonia is used as a key ingredient in the production of fertilisers and the manufacturing of synthetic fibres. OQ, a global integrated energy group, inaugurated its new ammonia plant in the Governorate of Dhofar with an investment cost of about \$463 million and a production capacity of 1,000 metric tons per day of liquid ammonia. Like other strategic development projects of the Group, OQ's Ammonia Plant in Dhofar contributes to enhancing the in-country added value. The value of OQ's procurements from Omani companies amounted to about \$199 million. Ammonia is used as a key ingredient in the production of fertilisers and is an important intermediate chemical in the manufacturing of synthetic resins, detergents, coolants, synthetic fibres, and polyurethanes, among other applications. **17<sup>th</sup> January 2023**

- **TotalEnergies rolls out its integrated gas strategy**

Gas production is expected to reach 500 million standard cubic feet per day by mid-2024. In line with its growth strategy in gas and LNG, a fuel contributing to the energy transition, TotalEnergies announces the in the Sultanate of Oman as well as an agreement with Oman LNG for a long-term LNG purchase contract. TotalEnergies announces the start of gas production from the Mabrouk North-East field in the onshore Block 10. Gas production is expected to reach 500 million standard cubic feet per day by mid-2024. TotalEnergies deploys in Oman its multi-energy strategy in oil, gas and renewables and so participates in the sustaina resources." TotalEnergies has recently signed 30 MW of Solar projects in Oman including a project to supply Sharqiyah Desalinatio Veolia. **22<sup>nd</sup> January 2023**

- **QatarEnergy signs agreement with QPD to continue Al-Karkara and A-Structures offshore fields development and production**

QatarEnergy and Japan's Qatar Petroleum Development Company (QPD) have signed a new agreement for the continued development and production of the Al-Karkara and A-Structures oil fields, located in the territorial waters of the State of Qatar. This new 5-year agreement, which commences on 23 December 2022, succeeds the development and production sharing agreement signed in December 1997. Under the new agreement, QPD, which is owned by Cosmo E&P and Sojitz, will continue to act as the operator of the oil fields. Commenting on this occasion, His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QatarEnergy, said: "We are pleased to continue our partnership with Qatar Petroleum Development Company (Japan) and to work together to continue the development and production of the Al-Karkara and A-Structures fields. The fields were initially considered non-commercial until QPD managed to prove their commercial viability

QATAR

in the late 1990s. The fields started production in March 2006, and since then have produced a total of 33.5 million barrels of crude oil. Al-Karkara and A-Structures are the first fields in the State of Qatar to achieve zero gas flaring by re-injecting the excess sour gas underground. **22<sup>nd</sup> December 2022**

- **Technip Energies secures \$265 million contract for Chevron-QatarEnergy JV project**

Technip Energies has been awarded a major contract worth over \$265 million by Chevron Phillips Chemical (CPChem) and QatarEnergy for its joint venture project, the Golden Triangle Polymers, along the Gulf Coast in Texas, US. The scope of work includes supply of proprietary cracking furnaces linked to the 2,000 kilo tonnes per annum (kta) ethane cracker unit for the Golden Triangle Polymers project. Technip Energies said this latest award was in line with its early engagement strategy with CPChem and QatarEnergy, which resulted in the selection of proprietary ethylene technology and includes the successful completion of the ethylene license and Process Design Package (PDP). The modularized cracking furnaces will feature seven of the largest capacity furnaces that Technip Energies has ever designed, it stated. The cracker is designed using modern emissions reduction technology and processes that result in lower greenhouse gas emissions than similar facilities in the US and Europe, it added. **29<sup>th</sup> December 2022**

- **Samsung Engineering awarded Ethylene Project Contract in Qatar**

Samsung Engineering announced that it was awarded a contract for an ethylene unit and its utilities for the Ras Laffan Petrochemicals Project (RLPP) in Qatar. The Project will be located in Ras Laffan Industrial City, 80km north of Doha. Samsung Engineering will be executing the RLPP Ethylene Project jointly with CTCI as the 'Samsung Engineering CTCI Joint Venture' (SCJV). The project is being built by Ras Laffan Petrochemicals (RLP), which is a joint venture consisting of Qatar Energy with a 70% stake and Chevron Phillips Chemical with a 30% stake. QatarEnergy and Chevron Phillips Chemical are building petrochemical projects in Qatar and the United States. Samsung Engineering will be in charge of the major ethylene production facilities with its scope of work including furnaces, C2 hydrogenation, hydrogen purification unit and three main compressors. CTCI will be in charge of the utility infrastructure, including steam/condensate collecting and boiler feed water, among others. The project is expected to be completed in late 2026. **9<sup>th</sup> January 2023**

- **Taiwan's CTCI Corporation awarded Petrochemicals Project in Qatar**

CTCI Corporation, one of the world's leading engineering, procurement, and construction (EPC) companies announced that it was awarded a portion of the Ras Laffan Petrochemicals Project (RLPP), which includes the ethylene unit and its utilities. This project is located in Ras Laffan Industrial City, Qatar. Once completed, the ethylene plant will be one of the largest in the world by capacity. The project consists of the ethylene unit and two high-density polyethylene units. The total cost of the project is \$6 billion and startup is anticipated in late 2026. CTCI is executing this project with Samsung Engineering as the "Samsung Engineering CTCI Joint Venture" (SCJV). The client, Ras Laffan Petrochemicals (RLP), is a joint venture between QatarEnergy and Chevron Phillips Chemical. The companies are building petrochemical projects in Qatar and the United States. Michael Yang, Chairman of CTCI Corporation, said, "We appreciate the trust that Ras Laffan Petrochemicals has placed in us through this monumental opportunity for our team. We will utilize quality engineering and safety management to complete the task on time and up to standards. **9<sup>th</sup> January 2023**

- **Maire Tecnimont awarded \$1.3 billion EPC Petrochemical Contract in Qatar**

QatarEnergy and Chevron Phillips Chemical Company LLC will proceed with the construction of the largest ethane cracker in the Middle East and one of the largest in the world. An agreement marking the final investment decision (FID) for the USD6 billion integrated polymers complex in Ras Laffan Industrial City, Qatar, was signed by Qatari Minister of State for Energy Affairs, Saad Sherida Al-Kaabi, who is also the president and CEO of QatarEnergy, and by Bruce Chinn, president and CEO of Chevron Phillips Chemical, at a ceremony in Doha. The two companies created a joint venture, Ras Laffan Petrochemicals, in which QatarEnergy owns a 70% equity share and Chevron Phillips Chemical owns 30%. The 435-acre project site will include an ethane cracker with a capacity of 2,080 kilotons

per annum (KTA) of ethylene and will also include two high-density polyethylene (HDPE) derivative units with a total capacity of 1,680 KTA. Chevron Phillips Chemical will provide project management services. Construction began with early works at the site in June 2022, and startup is expected in late 2026. **8<sup>th</sup> January 2023**

- **\$6bn QatarEnergy and Chevron Phillips Chemical to build one of the world's largest ethylene plant**  
QatarEnergy announced the Final Investment Decision (FID) with Chevron Phillips Chemical Company LLC (CPChem) to build the Ras Laffan Petrochemicals complex – a \$6 billion integrated olefins and polyethylene facility at Ras Laffan Industrial City. The announcement was made in Doha in a special ceremony during which His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QatarEnergy, and Mr. Bruce Chinn, the President and CEO of Chevron Phillips Chemical, signed the agreement for a joint venture company to implement the project, in which QatarEnergy will own a 70% equity share, and CPChem will own a 30% share. **8<sup>th</sup> January 2023**
- **QatarEnergy progresses construction work on \$10 billion LNG export facility**  
QatarEnergy and its partner ExxonMobil are making progress on the construction of their Golden Pass LNG export terminal on the US Gulf Coast near Sabine Pass, Texas, to launch the facility in 2024. Once complete, the giant facility located next to the existing LNG import terminal in Sabine Pass will have three trains and a total liquefaction capacity of more than 18 mtpa. State-owned QatarEnergy owns a 70% stake in the project while US oil giant ExxonMobil has a 30% share. QatarEnergy's trading unit will offtake 70% of the Golden Pass LNG supplies and ExxonMobil will take the rest as part of a deal the two firms revealed in October last year. A joint venture of Chiyoda, McDermott, and Zachry is building the LNG export facility, which has progressed installation of piping and steel in process areas and has continued walls and piping installation for the ground flares. During December, concrete foundation pours continued in Train 2 and Train 3 and the project has also started LNG tanks top modifications scope. Golden Pass plans to launch the first train in the first quarter of 2024, the second train in the third quarter of 2024, and the third train in the first quarter of 2025. **10<sup>th</sup> January 2023**
- **Emerson Selected to Automate Largest Ethane Cracker in Middle East**  
Global software and engineering leader Emerson announced in a statement that it will provide automation technologies, software and analytics for the Ras Laffan Petrochemical Complex in Qatar as part of a consortium with Viasat Energy Services, a division of global communications company Viasat. QatarEnergy and Chevron Phillips Chemical to build one of the world's largest ethylene plant. The \$6 billion integrated polymers project, a joint venture between QatarEnergy and Chevron Phillips Chemical, is currently under construction and scheduled to go online in late 2026. The project is QatarEnergy's largest investment ever in the country's petrochemical sector. The complex will include an ethane cracker with a capacity of 2.1 million tonnes of ethylene per year, making it the largest ethane cracker in the Middle East and one of the largest in the world, as well as two high-density polyethylene derivative units with a total capacity of 1.7 million tonnes per year. **24<sup>th</sup> January 2023**
- **Giant Qatargas expansion project reaches crucial bidding stage**  
Qatar's \$10 billion project demands two whole LNG trains, promising capacity boost of almost 16 million tpa. Two leading international contracting groups are poised to submit commercial offers to Qatargas for giant liquefaction facilities required for the second phase of its North Field expansion project. Multiple people familiar with the development told Upstream that the bid process for the liquefaction trains package is set to progress to its next crucial stage, with price bids expected to be submitted within the next few weeks. One person noted that the giant onshore package meant for the North Field South (NFS) development was earlier expected to be finalised by the first quarter of this year, but got delayed on a few occasions. **24<sup>th</sup> January 2023**

SAUDI ARABIA

- **L&T wins EPC contract for world's largest hydrogen plant in Saudi Arabia**

L&T will execute power grid and power generation works for the plant on an EPC basis. NEOM Green Hydrogen Co (NGHC) has named Indian contractor Larsen & Toubro (L&T) as the sub-EPC contractor for its massive green hydrogen plant in Saudi Arabia. Under the terms of the contract, L&T will execute power grid and power generation works for the plant on an EPC basis. NGHC's primary EPC contractor and system integrator Air Products (a joint venture partner) signed the agreement with L&T, which was named one of the top contractors in the Top 25 EPC contractors list. Located in NEOM, Saudi Arabia's \$500 billion futuristic city being developed in Tabuk, NGHC's mega-plant will integrate up to 4 GW of solar and wind energy to produce up to 600 tons per day of carbon-free hydrogen in the form of green ammonia as a cost-effective solution for transportation globally. Green ammonia output is expected up to 1.2 million tonnes. The plant at NEOM is scheduled for commissioning by 2026. **23<sup>rd</sup> December 2022**

- **National oil companies expected to announce more projects driven by expansion plans**

The Middle East is home to some of the world's largest conventional onshore and offshore oil and gas fields. The most prominent fields in the region include Ghawar and the Safaniya oil fields in Saudi Arabia, the Burgan oil field in Kuwait, the Rumaila oil fields in Iraq. According to APIOGRP, MENA's five-year energy investment portfolio in the next five years comprises a total investment of \$879 billion, which is a 9% increase over the investment projection for 2021 – 2025. Of all the projects in the pipeline for implementation, about 30% are in the execution phase, while the remaining 70% are in the planning stage. The increase in project expenditure is spearheaded by the GCC, with committed projects making up more than 45% of the Gulf States' total energy investments, according to a recent report by Oilfield Technology. National oil companies in the region have committed investments in the upstream sector to increase the country's oil and natural gas production in the coming years: Saudi Aramco targets to increase its sustainable production capacity to 12.3 million bpd by 2025, thereby bringing additional output to meet global energy requirements. The plan is to further raise the production capacity to 12.7 million bpd by 2026 before reaching 13 million bpd by 2027. The kingdom plans phase-wise expansion of the nation's production capacity. The Dammam field is forecasted to yield an additional 75,000 bpd by 2024, and the offshore Marjan and Berri fields are set to provide another 300,000 bpd and 250,000 bpd, respectively by 2025. The Zuluf field expansion is projected to add 600,000 bpd by 2026 and the Safaniyah development is set to increase production by 700,000 bpd by late 2027. **22<sup>nd</sup> December 2022**

- **Saudi Arabia announces re-tendering of Taiba (3.6GW) and Qassim (3.6GW) IPP Projects**

Saudi Power Purchasing Company (SPPC) announces it will be re-tendering Taiba and Qassim IPP projects with provision for Carbon Capture and Sequestration (CCS) readiness. In alignment with KSA's Saudi Green Initiative, and its stated greenhouse gases (GHGs) net-zero ambition by 2060 through deployment of technologies for circular carbon economy approach in addition to the energy sector's objectives to ensuring security of supply, diversity of market participation, fair competition, and transparency, the Saudi Power Procurement Company will be re-tendering Taiba and Qassim projects into four (4) smaller combined cycle power projects of 1800MW capacity each with provision for Carbon Capture and Sequestration (CCS) readiness. All Taiba and Qassim qualified developers are automatically qualified for the new projects while other interested participants can submit their qualification documents starting today. **29<sup>th</sup> December 2022**

- **Saudi Arabia and China partner to develop refineries**

Saudi Aramco, Saudi Basic Industries Corporation and Chinese energy company Sinopec have signed agreements to develop refining complexes in both Saudi Arabia and China, the Saudi NOC announced on Sunday. The first is a heads of agreement to develop the Gulei II integrated petrochemicals complex in Gulei, China. The project will consist of a 320,000-bpd refinery and a 1.5-million-tonnes-per-year petrochemicals cracker. It is expected to be commissioned by the end of 2025. The second is an MoU for economic and technical feasibility studies on a new petrochemicals complex in Yanbu, Saudi Arabia. Expected costs of both projects were not disclosed. Saudi Aramco aims to expand its liquids-to-chemicals capacity to 4 billion bpd by 2030. These projects represent an opportunity to contribute to a modern, efficient and integrated downstream sector in both China and Saudi Arabia," said Mohammed

Y. Al Qahtani, senior vice-president of downstream of Saudi Aramco. "They also underpin our long-term commitment to remain a reliable supplier of energy and chemicals to Asia's largest economy. **21<sup>st</sup> December 2022**

- **Samsung Secures Hawiyah Unayzah Gas Reservoir Storage (HUGRS)**

Saudi Aramco awarded the project "Construction of Hawiyah Unayzah Gas Reservoir Storage (HUGRS) Project". The project location is in Hawiyah Unayzah area, eastern region of Kingdom of Saudi Arabia. The project has been awarded to South Korean Oil & Gas Company, Samsung Engineering. The value of the project is \$ 1.85 billion. Hawiyah Unayzah Gas Reservoir Storage (HUGRS) Project: The project includes gas injection facility of 1,500 million standard cubic feet per day (MMSCFD) and a gas reprocessing facility of 2,000 MMSCFD. Once the project completed, it will introduce surplus sales gas into existing well during winter and reproduce gas to match the increase in demand in the summer, due to regional characteristics Samsung Engineering will execute the project on engineering, procurement and construction (EPC) basis. Power supply to HUGRS project will be facilitated through Saudi Electricity Company (SEC). Saudi Arabia's Alfanar Construction Company will construct the 380kV Substation for the HUGRS facility. The value of the project is \$58.5 million. India's Larsen & Toubro (L&T) will construct associated 380kV Transmission line network for HUGRS project. The value of the project is \$61.5 million. **28<sup>th</sup> December 2022**

- **Aramco, TotalEnergies to Build \$11bn Petrochemical Complex in Saudi Arabia**

The Saudi Arabian Oil Company (Aramco) and TotalEnergies have taken the final investment decision for the construction of a world scale petrochemical facility in Saudi Arabia. The 'Amiral' complex will be owned, operated, and integrated with the existing SATORP refinery located in Jubail on Saudi Arabia's eastern coast. The petrochemical facility will enable SATORP to convert internally produced refinery off-gases and naphtha, as well as ethane and natural gasoline supplied by Aramco, into higher value chemicals, helping to advance Aramco's liquids to chemicals strategy. The complex will comprise of a mixed feed cracker capable of producing 1.65 million tons per annum of ethylene, the first in the region to be integrated with a refinery. It will also include two state-of-the-art polyethylene units using Advanced Dual Loop technology, a butadiene extraction unit, and other associated derivatives units. The project alone represents an investment of around \$11 billion, of which \$4 billion will be funded through equity by Aramco (62.5%) and TotalEnergies (37.5%). Its construction is scheduled to begin during the first quarter of 2023 with commercial operation targeted to start in 2027. **3<sup>rd</sup> January 2023**

- **Contracting giants to battle for Saudi Aramco's \$6 billion Jafurah development**

Second phase of Jafurah project is expected to lift production to 2 Bcfd of gas by 2030. Leading international contracting giants are set to compete for the second development phase of Saudi Aramco's Jafurah unconventional onshore gas project, with key packages worth upwards of \$6 billion. The Saudi state-owned giant recently sought expressions of interest for multiple engineering, procurement and construction (EPCI) packages for Jafurah phase two and is expected to issue tenders to short-listed players promptly, two people close to the bid process said. Saudi Aramco is carrying out a phased development approach for its \$100 billion-plus Jafurah project, which is expected to produce up to 2 billion cubic feet per day of gas by 2030. **4<sup>th</sup> January 2023**

- **Aramco awards \$693 million contract for desalination plant**

Saudi Aramco has awarded a \$693 million contract to Lamar Holding to develop a seawater desalination plant, Arab News reported, citing a MEED report. The seawater reverse osmosis desalination plant includes a water distribution network, and is a part of the Jafurah gas development scheme. With a design capacity of 80,000 cubic meters a day, the project also includes power and utility facilities. By 2023, the plant is expected to have a power capacity of 270-320 megawatts. In addition to Lamar Holding, the local utility developer Mowah Co. is also investing in the seawater desalination plant. SEPCO Electric Power Construction Corp., a Chinese company, will be the assigned EPC contractor for the project. **4<sup>th</sup> January 2023**

- **China Harbor awarded two new Contracts in Saudi Arabia**

China Harbor announced in a statement that it has awarded two contracts in Saudi Arabia. The first Contract is related to building the infrastructure of a new Project in Riyadh, and the main scope of work include various pipeline facilities, earthworks and ancillary housing construction facilities. This project is the second pipeline network project won by the company in the central region of Saudi Arabia in Riyadh, and it is also another important achievement of the company's active "secondary operation" for core owners. The successful bidding of this project provides strong support for the company to further expand the "pipeline network" industrial chain in the Saudi market, develop the "construction" and "urban comprehensive" industrial chain, enter the "big city" field, and expand the Riyadh project cluster. The Second Contract is related to upgrading and reconstruction project of the first and second container terminals of Dammam Port in Saudi Arabia. **8<sup>th</sup> January 2023**

- **Worley, JESA awarded \$278m Contracts from Ma'aden**

Saudi Arabian Mining Company (Ma'aden) Announces Engineering, Procurement and Construction Management (EPCM) Contract Sign Off with WorleyParsons Arabia Limited and JESA International S.A. The value of the contract is SAR 1.043 billion (278 million USD). As part of the contract, WorleyParsons Arabia Limited and JESA International S.A will provide engineering, procurement, and construction management services for the construction of the phosphate 3 phase 1 project that will produce 1.5 MT per year of phosphate fertilizers. An integrated production complex will be built in Wa'ad Al Shamal (WAS) and Ras Al-Khair (RAK) industrial cities. The duration of the contract is 42 months. **11<sup>th</sup> January 2023**

- **Aramco awards \$173 million contract to Arabian Drilling**

Arabian Drilling is the largest drilling rig contractor in the Kingdom in terms of the fleet size. Saudi oilfield services company Arabian Drilling has won a \$173 million contract for offshore jack up unit from Saudi Aramco, Arabian Drilling announced today. As part of the 5-year contract, which is expected to commence in Q3 2023, Arabian Drilling will supply an offshore jack up unit with full crew to perform offshore drilling services in the Kingdom of Saudi Arabia. Arabian Drilling is the largest drilling rig contractor in the Kingdom in terms of the size of its available drilling rig fleet. The group's fleet includes 45 rigs in Saudi Arabia and the Saudi-Kuwaiti neutral zone, 38 of which are onshore drilling rigs, and seven offshore drilling rigs. **11<sup>th</sup> January 2023**

- **Saudi Aramco nears decision for up to 11 coveted offshore contracts**

Saudi Aramco is nearing its decisions for up to 11 prized engineering, procurement and construction contracts involving multiple offshore fields in the country. The offshore deals are part of Aramco's lucrative long-term agreement (LTA) with 10 leading international contracting giants and could be awarded within weeks, three people close to the bid process told Upstream. Some of the key contracts could be finalised by end of this month, while a few others could be awarded by February," one person noted. **11<sup>th</sup> January 2023**

- **Saudi Arabia signs \$11.4 billion industrial projects in Yanbu and Jubail**

Saudi Arabia's Royal Commission for Jubail and Yanbu has signed five agreements worth more than \$11.4 billion for the establishment of key industrial projects in the Saudi cities of Ras Al Khair and Yanbu. The deals were signed on the sidelines of the International Mining Conference held at the King Abdulaziz International Conference Center in Riyadh. These include one with the Red Sea Aluminum Industrial Company in connection with leasing of industrial land in Yanbu Industrial City to establish a factory project for smelting and rolling aluminum and its alloys, drawing, purifying and casting, in addition to casting non-ferrous metals, stated the Royal Commission in its statement. The second agreement was with EV Metals company (EVM) that involves the leasing of industrial land to establish a complex for the production of high-purity chemicals required for active materials in the cathode that can be recharged for lithium-ion batteries for electric vehicles and renewable energy storage. **15<sup>th</sup> January 2023**

- **Air Products, Aramco, ACWA Power, and Air Products Qudra JV acquires second asset set for IGCC project in Jazan**

Air Products announced financial close and transfer of the second group of assets for the \$12 billion gasification and power joint venture (JV) with Aramco, ACWA Power and Air Products Qudra in the Jazan Economic City (Jazan), Saudi Arabia. The JV's purchase of this second group of assets at Jazan follows the successful asset acquisition and project financing transactions for the first group of assets completed in late October 2021. Some minor final commissioning items are expected to be completed later this calendar year. Seifi Ghasemi, Chairman, President and CEO of Air Products, said, "We are very proud to mark the close on the second group of assets at Jazan, a world-scale project that is a perfect fit with our growth strategy and which supports the Kingdom's Vision 2030. Consistent with our commitment, this will deliver significant contributions to our earnings going forward." Approximately 40 percent of the JV's capital structure consists of member contributions, and the remaining 60 percent consists of non-recourse project financing. About the Jazan JV: The JV has purchased ASU, gasification, syngas cleanup, utilities and power assets from Aramco. The JV owns and operates the facility under a 25-year contract for a fixed monthly fee, with Aramco supplying feedstock to the JV, and the JV producing power, steam, hydrogen and other utilities for Aramco. **22<sup>nd</sup> January 2023**

- **Sabic plans to increase production capacities for circular products to 1 MMt/y by 2030**

As a next step on the roadmap to meet this 2030 target, SABIC will upscale volumes globally of advanced and mechanical recycling as well as bio-based materials. SABIC has reaffirmed its commitment to accelerating the circular carbon economy during the World Economic Forum. An ambition to process one million metric tons of TRUCIRCLE circular products and technologies annually by 2030. Abdulrahman Al-Fageeh, SABIC CEO (A) said, "At SABIC, we are committed to helping provide our customers with more sustainable solutions, and our target of one million metric tons of TRUCIRCLE solutions by 2030 intends to help usher in the new circular economy." He added, "Dr transformation of the entire value chain, which is only possible through collective action, innovation, and collaboration a management. Therefore, we are working hard with downstream and upstream partners to accelerate this process. Construction of the company's first commercial unit in Geleen, the Netherlands is now entering the final stages and del 2023. As a next step on the roadmap to meet this 2030 target, SABIC will upscale volumes globally of advanced and mechan that context, SABIC also announced that it is exploring a new world-scale commercial advanced recycling investment t around 200kilotons (KT) of circular materials per year, as well as other projects such as a small-scale advanced recycle. **21<sup>st</sup> January 2023**

- **Saudi's East Pipes secures \$151.7 million contracts from NEOM, Petrojet**

East Pipes Integrated Co announced in a statement that it has signed multiple contracts with NEOM with total value of the contracts worth about \$99.3 million. The scope of works includes supplying of steel pipes for water transmission lines, and the duration of the contract is 12 months. In another statement, the company announced a contract to supply steel pipes to PETROJET Co. The total value of the contract around SR 196 million, East Pipes said. The scope of works includes supplying of steel pipes for water transmission lines, and the duration of the contract is 8 months. **23<sup>rd</sup> January 2023**

- **Saudi Aramco poised to tender huge carbon capture project targeting multiple gas plants**

First phase of the accelerated carbon, capture and storage scheme envisages capturing up to 9 million tonnes per annum of CO<sub>2</sub>. Two people familiar with the development dubbed as the accelerated carbon capture and storage (ACCS) project told Upstream that the tender process for the programme's first phase could be launched as early as next month. "We are hoping that the bid process for the engineering, procurement and construction (EPC) work for ACCS phase one is likely to start in February," one person noted. The first phase of the ACCS project envisages capturing about 9 million tonnes per annum of CO<sub>2</sub> from Aramco's Wasit, Fadhili and Khursaniyah gas plants, another one suggested. In the longer term, Aramco's target is ambitious, and up to 60 million tpa of CO<sub>2</sub> capture is being targeted through multiple development phases worth billions of dollars, project watchers said. The EPC packages for ACCS phase one project could be potentially worth \$700 million to \$800 million,

a person close to the bid process said. International players Linde and WesternGeco are believed to be partnering with Aramco in the CCS project, Upstream learns. **19<sup>th</sup> January 2023**

- **Technip Energies Awarded Contract to Upgrade Aramco’s Sulfur Recovery Facilities at Riyadh Refinery**

Technip Energies as part of its long-term agreement with Aramco has been awarded a contract to upgrade sulfur recovery facilities at Aramco’s Riyadh Refinery. This contract covers the implementation of three new tail gas treatment (TGT) units, improving the performance of the existing three sulfur recovery units (SRU) to comply with more stringent regulations for sulfur dioxide emissions, with recovery efficiency at more than 99.9%. The project will be executed locally, leveraging Saudi economic resources and infrastructure. The existing sulfur recovery units in the Riyadh refinery were designed and built by Technip Energies in the early 2000s. **24<sup>th</sup> January 2023**

- **Iraqi PM pushes Basra Desalination Project**

The Prime Minister, Mr. Muhammad Shia Al-Sudani, has chaired a meeting this week discussing the seawater desalination project in Basra Governorate. During the meeting, they discussed "the acceleration of contracting and financing mechanisms." The Prime Minister affirmed the government's intention to involve reliable international companies in the implementation of the project. The meeting was attended by the Minister of Construction, Housing and Municipalities, the Chairman of the Board of Advisors and a number of officials in the concerned sectors, as well as representatives of the Austrian consulting firm ILF. The project will also include the construction of a new power station, in addition to providing water to increase production at Basra's oil fields. **12<sup>th</sup> December 2022**

- **Iraq to launch bids for five new oil refineries**

Iraq is planning to invite bids for five new oil refineries to rehabilitate its hydrocarbon industry and other sectors, the country’s Oil Minister Hayan Abdel Ghani said in remarks published on Thursday. Ghani said the new refineries would add more than 500,000 barrels per day (bpd) to Iraq’s refining capacity, which will support its bid to diversify its economy. Ghani also said that the new projects comprise a 150,000-bpd refinery in the South-eastern Maysan Governorate, a 100,000-bpd refinery in Muthanna in the South, a refinery with a similar output in Kirkuk in central Iraq, a 150,000-bpd refinery in the Sothern Dhi Qar Governorate, and a 70,000-bpd unit in Nineveh in North Iraq. Ghani said another project involves the construction of a second unit in the existing Dhi Qar refinery to boost production by 70,000 bpd. “The oil ministry will in the near future offer these projects as investment opportunities as part of its plans to expand Iraq’s refining production,” he said. **12<sup>th</sup> January 2023**

**Siemens Energy to develop megaprojects in Iraq**

Siemens Energy plans to further expand its cooperation with Iraq by developing projects with a capacity of over 6 gigawatts in the next five years, a company spokesperson said on Friday. Among other things, this will involve the construction of conventional power plants as well as developing renewable energies and stabilising the power network, the spokesperson told Reuters. Siemens Energy CEO Christian Bruch plans to sign a memorandum of understanding on the plans with Iraqi Electricity Minister Ali Sadhil over the course of Friday, according to the spokesperson. Iraqi Prime Minister Mohammed Shia al-Sudani is visiting Berlin on Friday together with a high-level delegation, where he will meet German Chancellor Olaf Scholz. “A reliable power supply is the foundation for a stable society,” Bruch told Reuters. “Electrification of large parts of an entire country is therefore one of the most important tasks of our business.” He said the company would work to ensure that this is achieved as quickly as possible together with its partners in Iraq. Siemens Energy said the current roadmap ties in with a 2019 agreement that includes projects with a volume of more than 1 gigawatt by 2023. **13<sup>th</sup> January 2023**

- **Iraq Announces Investment Opportunities in Refineries**

IRAQ



Iraq's Minister of Oil has announced upcoming investment opportunities in the refining industry. Minister Hayan Abdul-Ghani said the plans include increasing refining capacities as follows: Al-Amarah refinery (150,000 barrels per day); Al-Muthanna refinery (100,000 barrels per day); Kirkuk refinery (100,000 barrels per day); Qayyarah refinery (70,000 barrels per day), and, a new unit with a capacity of (70,000 barrels per day) at the Dhi Qar refinery. The Ministry also plans to establish a new refinery in Dhi Qar governorate with a capacity of 150,000 barrels per day, and continues to add production units to refineries in the south, center, and north. It has previously announced the addition of a new production unit at the Diwaniyah refinery (70, 000 barrels per day) and the imminent start of production at the Karbala oil refinery 140,000 barrels per day. **20<sup>th</sup> January 202**

EGYPT

- Egypt announces \$2.1 billion investment in oil and gas exploration**  
 Egypt has announced a total investment of \$2.1 billion in oil and natural gas exploration plans until 2025, Minister of Petroleum and Mineral Resources Tarek El-Molla said in a meeting recently. The investments were announced for the Mediterranean Sea in partnership with major international companies, El-Molla noted. Based on the preliminary findings, the new explorations are expected to result in promising discoveries that would support the national economy, El-Molla added. El-Molla also talked about recent development in the Soda Ash project in New Alamein's Industrial Zone with total investments of around \$500 million. **26<sup>th</sup> December 2022**
- Egypt Makes 53 New Oil And Gas Discoveries In 2022**  
 Egypt has witnessed a spike in its energy reserves in 2022, with 53 new oil and gas discoveries, according to a report by the country's Ministry of Petroleum and Mineral Resources. The new discoveries include 42 oil wells and 11 gas wells in the Western Desert, the Suez Gulf, the Mediterranean Sea, and Nile Delta. The latest gas discovery in the Nargis block occurred in December. Reuters reported that the discovery has 3.5 trillion cubic feet of natural gas reserves. The Minister of Petroleum and Mineral Resources Tarek El-Molla did say earlier this month that the volume of Nargis gas discovery was still under assessment. **30<sup>th</sup> December 2022**
- Egypt targets 36 Tcf of gas in latest bid round**  
 Egypt has launched its latest bid round with 12 blocks available in the Mediterranean Sea and the onshore Nile Delta that between them have the potential to house some 36 trillion cubic feet of gas. This licensing round follows hard on the heels of a 3.5 Tcf gas discovery made by Chevron in the offshore Nile Delta play and aims to stimulate more exploration in a country whose demand for gas continues to rise. **4<sup>th</sup> January 2023**
- Eni Announces New Gas Discovery Offshore Egypt**  
 Eni announces a significant new gas discovery at the Nargis-1 exploration well located in Nargis Offshore Area Concession, in the Eastern Mediterranean Sea, offshore Egypt, the company said in a statement. According to the statement, the Nargis-1 well has encountered approximately 200 net feet (61 m) of Miocene and Oligocene gas bearing sandstones and was drilled in 1,014 feet (309 m) of water by the Stena Forth drillship. The discovery can be developed leveraging the proximity to Eni's existing facilities. "Nargis-1 confirms the validity of Eni's focus on Egypt Offshore, which the company will further develop thanks to the recent award of exploration blocks North Rafah, North El Fayrouz, North East El Arish, Tiba and Bellatrix-Seti East, the statement said. Egypt's Nargis Offshore Area concession is ~445,000 acres, 1,800 square kilometers. **15<sup>th</sup> January 2023**
- Wintershall Dea Makes New Natural Gas Discovery in East Damanhour Block**  
 Wintershall Dea announced that it, along with its partners, has made a new natural gas discovery in the East Damanhour exploration block in the onshore Nile Delta. It said that the licensees, operator Wintershall Dea (40%) and partners Cheiron Energy (40%) and INA (20%), as well as the Egyptian Gas Holding Company (EGAS) will assess the discovery as a possible tie-back development towards the nearby infrastructure at Disouq. It should be noted that the Disouq gas project is operated by

DISOUOCO, a Joint Venture between Wintershall Dea and EGAS. On this occasion, Georg Bresser, Senior Vice President Global Exploration, said: "This discovery is another value-accretive exploration success in one of our well-established exploration areas. **12<sup>th</sup> January 2023**

- **El Molla Puts Pipeline Development, Upgrades at the Top of the Agenda**

Minister of Petroleum and Mineral Resources Tarek El Molla highlighted the importance of upgrading and developing the nation's petroleum pipelines as well as raising their efficiency as one of the important means to transport crude oil and petroleum products which will support Egypt's target to be a regional hub for trading oil and gas. El Molla made this statement while chairing the general assemblies for companies of Petroleum Pipelines (PPC), Petrogas, and Cairo Oil Refining Company (CORC) to approve their budget plan for the fiscal year (FY) 2023/24. El Molla said that there are currently projects working to extend new pipelines which adopt the country's new developmental strategy in addition to modifying some pipelines. During the Petrogas assembly, El Molla explained the ministry's achievements in developing the butane transportation and trading system. He added that the national project of natural gas delivery to housing units contributed to reducing the consumption of butane from 4.2 million tons to 3.6 million tons, which contributed to reducing butane cylinders subsidies. **22<sup>nd</sup> January 2023**

JORDAN

- **Sinopec Engineering negotiating \$3 billion contract for Zarqa refinery expansion**

Sinopec Engineering Co is in the negotiation phase for a \$3 billion contract from Jordan Petroleum Refinery Co to jointly develop the fourth expansion phase of the Zarqa Refinery with engineering giant Tecnimont and Japan's Itochu Corp. The aim of the project is to expand the Zarqa refinery's capacity to 150,000 barrels per day, up from the current 60,000 barrels a day. The contract includes the construction works of the whole plant's production equipment, public works and facilities outside the plant. JPRC is Jordan's only oil refining company and is headquartered in the country's capital city, Amman. The company's refinery is situated in Zarqa, and is primarily engaged in the manufacture of different types of fuels and petrochemicals. **10<sup>th</sup> January 2023**

PAKISTAN

- **Mubadala Energy signs initial agreement to explore clean fuel projects in Pakistan**

Mubadala Energy, the oil and gas unit of Abu Dhabi's Mubadala Investment Company, has signed an initial agreement to explore opportunities in sustainable fuels and feedstock production in Pakistan. As part of the agreement, which was signed with Austria's OMV and Pak-Arab Refinery, better known as Parco, the companies will pursue projects in areas such as plastics production, recycling and cleaner fuels, Mubadala Energy said on Thursday. "We have set out a clear strategy to pursue new energy sectors and low-carbon solutions in support of the energy transition," Mubadala Energy's chief executive Mansoor Al Hamed said. "This agreement brings together existing partners to combine leading technology, energy transition expertise and market infrastructure to realise the potential of circular economy solutions at scale." Mubadala Energy, which was previously known as Mubadala Petroleum, has assets and operations in 11 countries, primarily in the Mena region, Russia and South-East Asia. It reached the production milestone of 500,000 barrels of oil equivalent a day for the first time in June last year, a 22 per cent increase from 2021. The companies will also explore the development of synthetic oil and chemical products, Mubadala Energy said. Globally, the sector is projected to be worth about \$800 billion by 2030, up from about \$475 billion in 2020, according to Precedence Research. **19<sup>th</sup> January 2023**

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